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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/574,316

05/15/2006

Jong-Heon Kim

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5866

20575

7590

05/05/2008

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EXAMINER

LEE, CALVIN

ART UNIT

PAPER NUMBER

2892

MAIL DATE

DELIVERY MODE

05/05/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/574,316	Applicant(s) KIM et al.	
	Examiner Calvin Lee	Art Unit 2892	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-54 is/are pending in the application.
4a) Of the above claim(s) 1-13 and 37-54 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☒ Claim(s) 14-36 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 March 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>5/10/2006</u> . | 6) <input type="checkbox"/> Other: ____. |

OFFICE ACTION

Response to Election

1. Claims 14-36 have been elected without traverse in Paper dated April 9, 2008. Claims 1-13 & 37-54 are withdrawn from further consideration.

2. **This application is in condition for allowance except for the following formal matters:**

i) The disclosure is objected to for the following reason(s):

* The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed (see MPEP § 606.01).

A title such as --METHOD FOR FABRICATING AN IMAGE SENSOR MOUNTED BY MASS REFLOW-- is suggested. Note that, the claims are directed to method for fabricating an image sensor mounted by mass reflow instead of a package structure for a semiconductor image pickup device.

** Page 10 line 11, replace “a water cooled tube 440” with --a water cooled tube (not shown)--

Page 10 line 13, replace “the first example of Fig. 6a” with --the first example of Fig. 6--

Page 10 line 14, replace “pickup device 41” with --pickup device 410--

The disclosure has been checked to the extent necessary to determine the presence of all possible minor errors. However, the applicant’s cooperation is requested in correcting any errors of which applicant may become aware in the disclosure.

ii) The claims 27-28 are objected to because of the following reasons:

Claims 27-28 line 3, after “is formed” delete --and the table--.

Allowable Subject Matter

3. Claims 14-36 would be allowed. The following is an examiner’s reason for allowance:

None of the references of record teaches or suggests the claimed “forming at least one metal thin film layer on the top part of the resultant material while adjusting the surface temperature of the semiconductor image pickup device at the range between a room temperature and 200°C” with “forming a photosensitive film on the top part of the metal thin film layer and then light-exposing and developing the same so as to expose the metal thin film layer of the regions where the electrode pads of the semiconductor image pickup device are formed” and among other steps/limitations as cited in independent claim 14.

If Applicants are aware of better art than that which has been cited, they are required to call such to attention of the examiner. Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire TWO MONTHS from the mailing date of this letter. When responding to the office action, Applicants' are advice to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.

Contact Information

4. Any inquiry concerning this communication from the Examiner should be directed to *Calvin Lee* at (571) 272-1896 on Mondays thru Thursdays 7AM-5PM (EST). If attempts to reach the examiner by telephone are unsuccessful, Art Unit 2892's Supervisory Patent Examiner *Thao Xuan Le* can be reached at (571) 272-1708. The fax phone number for the organization is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAG or Public PAIR. For more information about the PAIR system, see <http://pair-direct.uspto.gov> Should you have questions on access to the PAG system, contact the Electronic Business Center (EBC) at 1-866-217-9197.

Dated: April 30, 2008

/Calvin Lee/

Primary Examiner, Art Unit 2892